

# **Contaminant Screening Study Libby Asbestos Site, Operable Unit 4 Libby, Montana**

**Draft Summary Report for the  
Libby Drive-In Theater**

**December 2005**



*Summary Report*

DRAFT

Draft Summary Report  
For the Libby Drive-In Theater Investigation,  
Contaminant Screening Study,  
Libby Asbestos Site, Operable Unit 4

December 7, 2005

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*Prepared for:*

U.S. Department of Transportation  
Research and Special Programs Administration  
John A. Volpe National Transportation Systems Center  
Environmental Engineering Division, DTS-33  
55 Broadway, Kendall Square  
Cambridge, Massachusetts 02142

*Prepared by:*

CDM  
1331 17<sup>th</sup> Street, Suite 1100  
Denver, Colorado 80202

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For the Libby Drive-In Theater Investigation,  
Contaminant Screening Study,  
Libby Asbestos Site, Operable Unit 4

Contract No.: DTRT57-05-D-30109

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_  
Nicole Bielecki  
CDM Project Scientist

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Geoff McKenzie, P.E.  
CDM Project Engineer

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Kimberly Zilis  
CDM Quality Assurance Coordinator

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_  
Jim Christiansen  
EPA Region 8 Remedial Project Manager

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Sampling Event, Libby Drive-In Theater

# Acronyms

CDM	CDM Federal Programs Corporation
CSS	contaminant screening study
EPA	U. S. Environmental Protection Agency
FSDS	field sample data sheet
LA	Libby amphibole
PLM	polarized light microscopy
QA/QC	quality assurance/quality control
RI	remedial investigation
SAP	sampling and analysis plan
Site	Libby Drive-In Theater
SRC	Syracuse Research Corporation
VE	visual area estimation

# Section 1

## Introduction

The purpose of this report is to summarize contaminant screening study (CSS)/remedial investigation (RI) field activities conducted by CDM Federal Programs Corporation (CDM) at the Libby Drive-In (Site) in Libby, Montana on September 23, 2003. Figure 1-1 presents the site location.

Consistent with other areas of Libby, Montana, vermiculite from Vermiculite Mountain may have been used as base and/or fill material throughout the drive-in area. Visual inspections were performed and soil samples were collected, to determine if vermiculite and/or Libby amphibole (LA) asbestos were present in these areas of the Site.

All investigation activities were conducted in accordance with the Final Sampling and Analysis Plan (SAP), Remedial Investigation (CDM 2002a), and Final Sampling and Analysis Plan Addendum for the Libby Drive-In Theater (SAP Addendum) (CDM 2002b).

## Section 2

# Field Activities

The Site investigation consisted of a verbal interview, visual inspection for vermiculite, and soil sampling. Unless noted in Section 3.1, all field documentation and sample collection procedures provided or referenced in the SAP Addendum were followed. The following sections summarize investigation field activities.

### 2.1 Verbal Interview

An interview was conducted on September 23, 2003 with Mr. Eric Wilson who, at the time of the interview, managed the property. The interview was held to gather information about any known locations of visible vermiculite on the Drive-In property. During the interview it was stated that the only buildings on the property were the ticket booth and concession stand and they were not insulated with vermiculite. Mr. Wilson indicated that there were no other known areas of vermiculite on the Site.

### 2.2 Visual Inspection

As part of the Site investigation, the ticket booth and concession stand were inspected to determine if vermiculite insulation or building materials were present. A primary structure and property assessment information field form was completed for the Site and is included in Appendix A. A visual inspection of both structures on the Site was conducted by the CDM field team, and no vermiculite insulation was observed in either of the structures.

In addition, a visual inspection was performed during the soil sampling efforts to determine if any vermiculite was present in soils on the site. No vermiculite was observed during the soil sampling events. Field observations are noted in the logbook pages and field sample data sheets (FSDS) included in Appendices B and C, respectively.

### 2.3 Soil Sampling

Soil sampling at the Site was conducted on September 23, 2003. The Site was divided into grids each approximately 125 feet by 125 feet. A five-point composite sample was collected from each grid square. In total, 19 soil samples were collected, including one field duplicate, at depths from 0 to 6 inches below ground surface. The results of all quality control samples will be addressed in a future data summary report. Analytical results for the 18 samples collected were all non-detect for LA asbestos, and vermiculite was not observed in any surface or subsurface locations during sampling. Sample locations and results are presented in Figure 2-1.



Soil samples were collected, prepared, and analyzed in accordance with procedures presented or referenced in the SAP Addendum. Analytical results for the September 2003 soil sampling event are included as Appendix D.

## 2.4 Soil Sample Processing and Analysis

As applicable to all soil samples collected under the Libby RI program, soil samples were processed at CDM's close-support facility in Denver in accordance with the soil preparation plan (CDM 2003). After processing, samples were sent to one of five analytical labs and analyzed for LA asbestos using two techniques: Polarized light microscopy (PLM) by visual area estimation (VE) and the PLM gravimetric method (Syracuse Research Corporation [SRC] 2003). EPA is in the process of evaluating the accuracy and reproducibility of each of these methods. However, based on EPA's performance evaluation study to date, PLM-VE results are currently being used to make project remediation decisions. For the purposes of this report, only PLM-VE results are presented.

## **Section 3**

# **Quality Assurance/Quality Control**

CDM has established a formal quality assurance program to ensure consistently high quality project deliverables under its Response Action Contract with EPA. For work conducted by CDM in Libby, quality assurance/quality control (QA/QC) measures include the collection of quality control samples (such as soil duplicate samples and equipment blanks), implementation of a laboratory quality assurance program, review of project reports by a CDM-approved quality assurance staff member, and an auditing component to assess the effectiveness of the quality assurance program. The following sections describe deviations from the SAP Addendum and the implications of those deviations on project or data quality objectives.

### **3.1 Deviations from the Sampling and Analysis Plan Addendum**

All requirements in the SAP Addendum were met without exception.

### **3.2 Achievement of Data Quality Objectives**

The data quality objectives of this investigation were met.

### **3.3 Data Validation and Reporting**

None of the analytical data contained in this report was further validated beyond that performed by the laboratory as part of their QA/QC program. Therefore, it is assumed that the raw data are useable for their intended purpose, which is to determine the extent of LA asbestos contamination at the Site.

## Section 4

### References

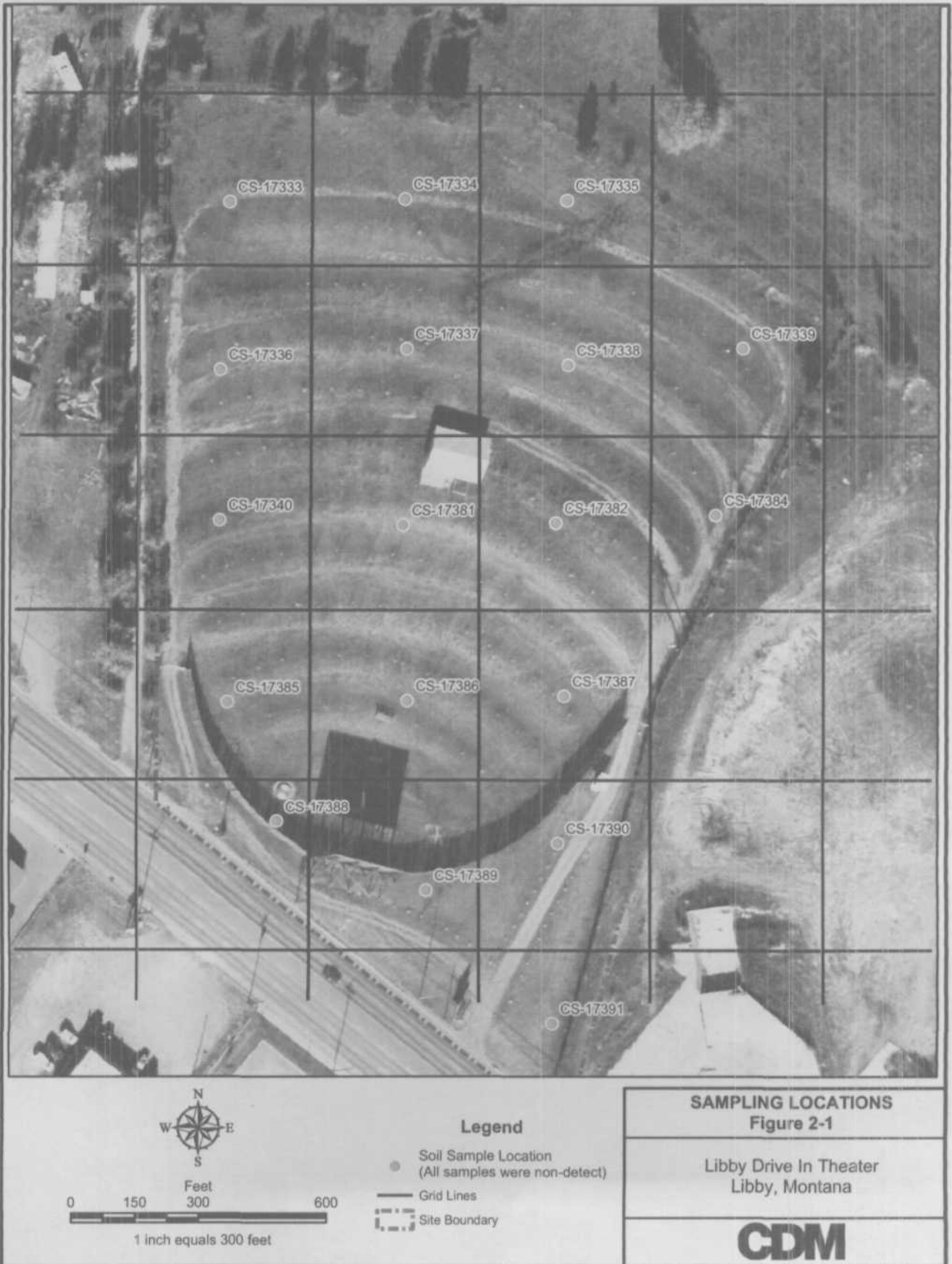
CDM. 2002a. Final Sampling and Analysis Plan, Remedial Investigation, Contaminant Screening Study, Libby Asbestos Site, Operable Unit 4. April.

\_\_\_\_\_. 2002b. Final Sampling and Analysis Plan Addendum for the Libby Drive In Theater. September.

\_\_\_\_\_. 2003. Close Support Facility, Soil Preparation Plan, Libby, Montana Asbestos Project, Sample Processing. April.

SRC. 2003. Analysis of Asbestos Fibers in Soil by Polarized Light Microscopy. SRC-LIBBY-03 (Rev. 0). March 3, 2003.





# Appendix A

## Information Field Form

☒ Soil samples collected (Date: 9/23/63)

LIBBY ASBESTOS PROJECT  
Contaminant Screening Study

Field Logbook No.: 100257 Page No.: 106-109 Site Visit Date: 9/23/03  
Address: West Hwy 2 Structure Description: DRIVER - IN  
Occupant: ERIC WILLSON (MANAGER) Phone Number: 293-2703  
Owner (if different than occupant): Erick Wilson Bent Wilson Phone Number: \_\_\_\_\_  
Business Name: DRIVER-IN <sup>024/23/03</sup> <sup>RE 9/23/03</sup>  
Sampling Team: BOB HUNT DANNY ZIMBRAND <sup>09/23/03</sup> Rick H Eustice  
Field Form Check Completed by (100% of forms): [Signature]  
Screening Field Check Completed by (2% of forms): \_\_\_\_\_

Data Item	Value	Notes
HOUSE ATTRIBUTES		
Property Description	22 9/23/03 <u>Residential</u> Industrial Commercial	
Surrounding Land Use	<u>Residential</u> Industrial <u>Commercial</u> 22 9/23/03 School Mining Other: _____	
Year of Construction	<u>1950's</u> Unknown	
Square Footage-	~ 1200 ft <sup>2</sup>	
Construction Material	<u>Wood frame</u> Masonry/Stone Other: _____	
Number of Floors Above Ground	<u>1</u> 2 3 Other: _____	
Number of Rooms Per Floor Above Ground	1: <u>4</u> 2: _____ 3: _____ Other: _____	
Basement	Yes <u>No</u>	
Heating Source	Wood/Coal <u>Electric</u> Propane/Gas Other: _____	
Heat Distribution	Forced air <u>Radiant</u> Other: _____	

## CSS Primary Structure IFF (continued)

Address: West Hwy 2BD# 004074

Data Item	Value	Notes
<b>OCCUPANT INFORMATION</b>		
Was the residence/building remodeled?	Yes <u>No</u>	
	If yes, When (years): <2 2-5 >5 Where: Attic Living Areas Garage Basement Other: _____	
Has resident/business purchased any Libby vermiculite materials from W.R. Grace in the past?	Yes <u>No</u>	
Has the property at this location been used for a for-profit enterprise of distributing, treating, storing, or disposing of Libby vermiculite?	Yes <u>No</u>	
<b>CONTAMINANT SCREENING STUDY ASSESSMENT</b>		
Occupant Information		<input checked="" type="checkbox"/> Verbal Interview Complete: <u>9/23/03</u>
Is there any knowledge of former miners, close relatives of miners, or any highly exposed persons living or visiting the property?	Yes <u>No</u> Unknown	If unknown, why?
Is the resident, past or present, diagnosed with an asbestos-related disease?	Yes <u>No</u> Unknown	If unknown, why?
Indoor Information		<input checked="" type="checkbox"/> Indoor Visual Inspection Complete: <u>9/23/03</u>
Does the interior have vermiculite attic insulation?	Yes <u>No</u> Unknown	If unknown, why?
Did the interior ever have vermiculite attic insulation? NA applies if attic currently has VCI	Yes <u>No</u> Unknown NA	If unknown, why?
Are there vermiculite additives in any of the building materials?	Yes <u>No</u> Unknown	If unknown, why?  Type and location of building material:



Address: West Hwy 2

Data Item	Value	Notes
Location of indoor vermiculite (circle all that apply)	Attic      Walls      Crawl Space <u>None</u> Visual in Living Space: Basement, Ground Floor, Second Floor, Attached Garage Other: _____	If in living space, provide specific location:

☒ Outdoor Visual Inspection Complete: 9/23/03  
02

Location of outdoor vermiculite (circle all that apply)	Driveway   Flowerbed   Garden   Yard Former Flowerbed   Former Garden Stockpile <u>None</u> Other _____	
---	--	--

☒ Reconnaissance (Verbal Interview, Indoor, Outdoor Inspection)

Complete: 9/23/05  
03

Are primary source materials present at the property?	Yes	No	
Where are primary source materials located?	Inside	Outside	NA applies if no primary source materials are located at the property.
	Both	NA	

ADDITIONAL INFORMATION (Note any partial access or sample collection issues)

Soil Samples collected AS PER CSS 116ky site, operable  
UNIT 4, 116ky MT: Final SAP Addendum For the  
116ky Drive in Theater-119, 9/27/02

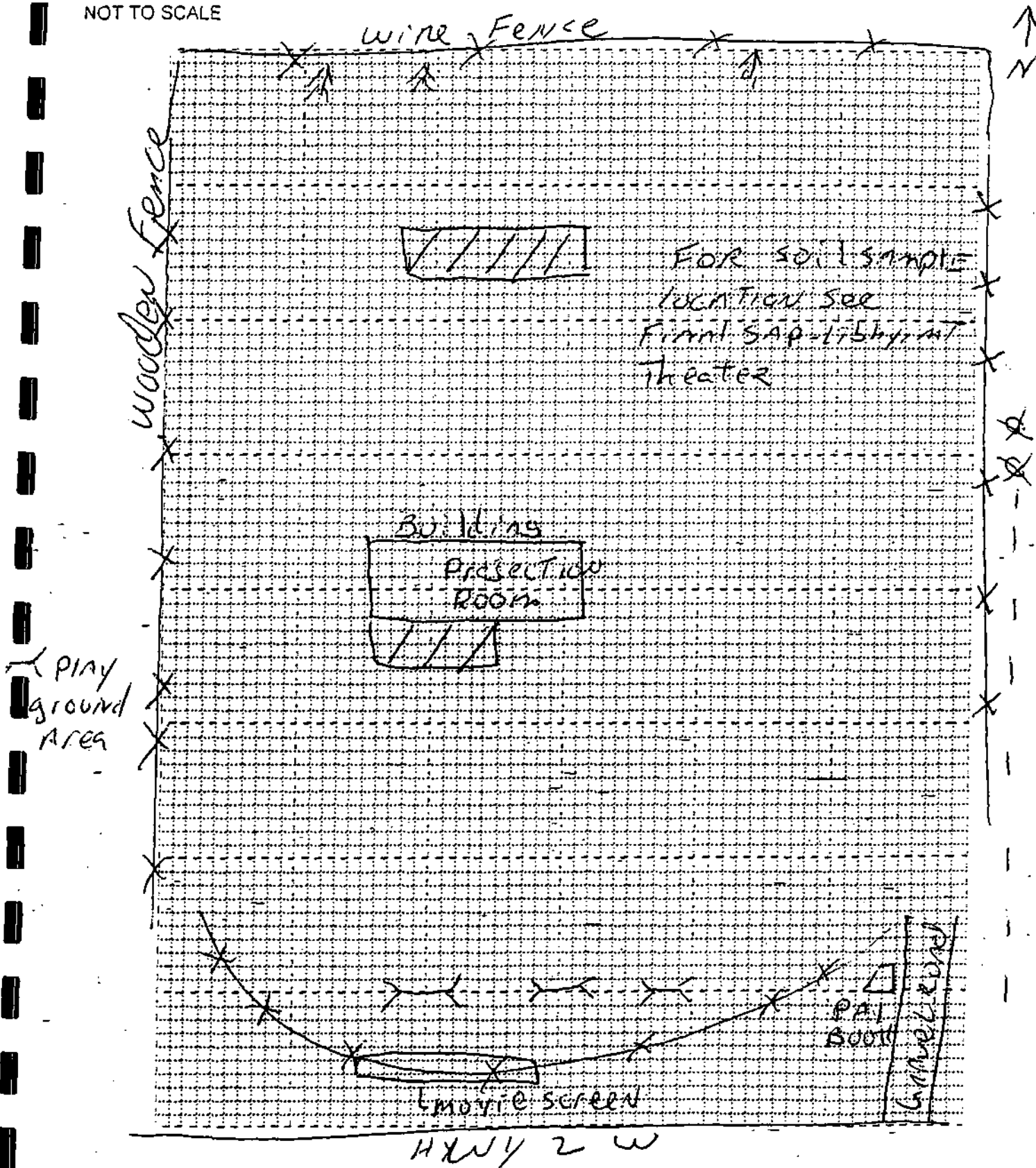
Address: West HWY 2

004074  
BD# ~~004091~~  
WED/b3k

# FIELD DIAGRAM OF PROPERTY

Identify important features (i.e. drainage, trees, gardens, structures, flowerbeds, utility poles, known underground utilities, suspected Libby amphibole source areas, sample locations, etc). Include north arrow.

NOT TO SCALE



# Appendix B

## Logbook Pages

**CDM**

Location LIBBY DRIVE-IN Date 9/23/03  
 Project / Client LIBBY RECORDS / U.S. EPA Region 8  
Emelia Hughes 9/1/03 BD-004074  
BERT WILSON

OBTAIN  
 0900- Arrive @ Libby Drive In - ~~check~~ <sup>in 9/23</sup>  
 signed access agreement & complete  
 an IFF (Interview, IFF is complete)  
 WITH MANAGER (Eric Wilson). There are  
 two structures on the property -  
 CONCESSION STAND & TICKET BOOTH.  
 Danny Zambrano complete IFF & ATTIC  
 INSPECTION. NO LVAE OBSERVED IN  
 CONCESSION STAND OR TICKET BOOTH AND  
 NO SECONDARY SOURCES are ~~relevant~~ <sup>relevant</sup>  
 Robert Hunt, Danny Zambrano, & Rick Evans  
 collect SOIL samples, sample areas are  
 sprayed with water prior to sampling.  
 Soil sampling equipment is decontaminate  
 WITH DI WATER & SCRUB BRUSH BETWEEN  
 samples

1316 CS-17333 SP-123911  
 DI 1  
 FIELD DATA SHEET - 005908 - 5 PT -  
1317 CS-17334 SP-123912  
 DI 2  
 FIELD DATA SHEET - 005910 - 5 PT -

7/23/03  
ROBERT HUNT - 9/23/03

Location LIBBY DRIVE-IN Date 9/23/03  
 Project / Client LIBBY RECORDS / U.S. EPA Region 8  
Emelia Hughes 9/1/03 BD-004074  
BERT WILSON

1318 CS-17335 SP-123913  
 DI 3  
 FIELD DATA SHEET - 005908 - 5 PT -

1324 CS-17336 SP-123914  
 DI 4  
 FIELD DATA SHEET - 005909 - 5 PT -

1325 CS-17337 SP-123915  
 DI 5  
 FIELD DATA SHEET - 005909 - 5 PT -

1326 CS-17338 SP-123916  
 DI 6  
 FIELD DATA SHEET - 005909 - 5 PT -

1334 CS-17339 SP-123917  
 DI 7  
 FIELD DATA SHEET - 005910 - 5 PT -

1336 CS-17340 SP-123918  
 DI 8  
 FIELD DATA SHEET - 005910 - 5 PT -

1337 CS-17381 SP-123919  
 DI 9  
 FIELD DATA SHEET - 005910 - 5 PT -

1401 CS-17382 SP-123920  
 DI 10  
 FIELD DATA SHEET - 005911 - 5 PT -

ROBERT HUNT - 9/23/03

108

Location Libby Drive - IN Date 9/23/03

Project / Client Libby Asbestos / U.S. EPA Region 8

Evelyn Huber #116

BS-004074

Beet Wilson

(1409)

DI 10

CS-17383

SP-123920

Field DATA SHEET 005911

- SPI -

(1407)

DI 11

CS-17384

SP-123961

Field DATA SHEET - 005911 - SPI -

(1349)

DI 12

CS-17385

SP-123962

Field DATA SHEET - 005912 - SPI -

(1421)

DI 13

CS-17386

SP-123963

Field DATA SHEET 005912 - SPI -

(1424)

DI 14

CS-17387

SP-123964

Field DATA SHEET 005912 - SPI -

(1426)

DI 15

CS-17388

SP-123965

Field DATA SHEET 005913 - SPI -

(1439)

DI 16

CS-17389

SP-123966

Field DATA SHEET 005913 - SPI -

(1443)

DI 17

CS-17390

SP-123967

Field DATA SHEET 005913 - SPI -

- 11 - ROBERT HUNT - 9/23/03 -

109

Location Libby Drive - IN

Date 9/23/03

Project / Client Libby Asbestos / U.S. EPA Region 8

Evelyn Huber #116

BS-004074

Beet Wilson

(1449)

DI 18

CS-17391

SP-123968

Field DATA SHEET - 005914 - SPI -

\* - No L.V. observed anywhere on the Libby Drive - IN property.

- No L.V. observed in secondary structures on 9/23/03

STRUCTURES

GPS ID T4A09233

on 9/23/03

- GPS all soil sample locations + Building (concession stand) on 9/23/03

1630 - FINISHED E LIBBY DRIVE, IN

9/23/03

TH

- 11 - ROBERT HUNT - 9/23/03 -

# Appendix C

## Field Sample Data Sheets

# CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 106 Sampling Date: 9/23/03  
 Address: Libby Drive IN 1144 Highway 2 West Owner/Tenant: Emmett Huber Bent Wilson  
 Business Name: Libby Drive IN  
 Land Use: (circle) Residential School Commercial Mining Roadway Other ( )  
 Sampling Team: (circle) CDM MACTEC Other \_\_\_\_\_ Names: Danny Zamparo Rich Eustice  
Robert Hunt

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17333</u>	<u>CS- 17334</u>	<u>CS- 17335</u>
Location ID	<u>SP- 123911</u>	<u>SP- 123912</u>	<u>SP- 123913</u>
Sample Group	<u>Property (DI 1)</u>	<u>Property (DI 2)</u>	<u>Property (DI 3)</u>
Location Description (circle)	Back yard <u>center</u> Front yard <u>10' N</u> Side yard <u>10' S</u> Driveway <u>10' E</u> Other <u>DI 1 10' W</u>	Back yard <u>center</u> Front yard <u>10' N</u> Side yard <u>10' S</u> Driveway <u>10' E</u> Other <u>DI 2 10' W</u>	Back yard <u>center</u> Front yard <u>10' N</u> Side yard <u>10' S</u> Driveway <u>10' E</u> Other <u>DI 3 10' W</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	<u>Grab</u> <u>Comp. # subsamples 5</u>	<u>Grab</u> <u>Comp. # subsamples 5</u>	<u>Grab</u> <u>Comp. # subsamples 5</u>
Sample Time	<u>1316</u>	<u>1317</u>	<u>1318</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	BD- <u>004074</u> <u>NO L.V. OBSERVED</u>	BD- <u>004074</u> <u>NO L.V. OBSERVED</u>	BD- <u>004074</u> <u>NO L.V. OBSERVED</u>
Entered (LFO) <u>PS</u>	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____

For Field Team Completion  
(Provide Initials)

Completed by RH

QC by RE

PS  
9/23/03

# CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 107 Sampling Date: 9/23/03  
 Address: 1144 Highway 2 West Owner/Tenant: ~~Emilia Hooe~~ Bent Wilson  
 Business Name: Libby DRUG INC  
 Land Use: (circle) Residential School Commercial Mining Roadway Other <sup>en 9/23/03</sup>  
 Sampling Team: (circle) CDM MACTEC Other \_\_\_\_\_ Names: Robert Hunt Rich Eusice  
Danny Zambrano

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17336</u> ✓	<u>CS- 17337</u> ✓	<u>CS- 17338</u> ✓
Location ID	<u>SP- 123914</u>	<u>SP- 123915</u>	<u>SP- 123916</u>
Sample Group	<u>Property (DI 4)</u>	<u>Property (DI 5)</u>	<u>Property (DI 6)</u>
Location Description (circle)	Back yard <u>Center</u> Front yard <u>10' W</u> Side yard <u>10' S</u> Driveway <u>10' E</u> <u>Other DI 4</u> <u>10' W</u>	Back yard <u>Center</u> Front yard <u>10' W</u> Side yard <u>10' S</u> Driveway <u>10' E</u> <u>Other DI 5</u> <u>10' W</u>	Back yard <u>Center</u> Front yard <u>10' W</u> Side yard <u>10' S</u> Driveway <u>10' E</u> <u>Other DI 6</u> <u>10' W</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 5</u>	Grab <u>Comp. # subsamples 5</u>	Grab <u>Comp. # subsamples 5</u>
Sample Time	<u>1324</u>	<u>1325</u>	<u>1326</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	<u>BD-004074</u> <u>NO L.V.</u> <u>OBSERVED</u>	<u>BD-004074</u> <u>NO L.V.</u> <u>OBSERVED</u>	<u>BD-004074</u> <u>NO L.V.</u> <u>OBSERVED</u>
Entered (LFO) <u>PS</u>	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion  
(Provide Initials)

Completed by RM

QC by 102



# CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 107 Sampling Date: 9/23/03  
 Address: 1144 Highway 2 West Owner/Tenant: Emelia Hobbs BERT Wilson  
 Business Name: Libby Drive IN  
 Land Use: (circle) Residential School Commercial Mining Roadway Other ( )  
 Sampling Team: (circle) CDM MACTEC Other \_\_\_\_\_ Names: Rich Eusack Danny Lawrence  
Robert Hunt

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17339</u> ✓	<u>CS- 17340</u> ✓	<u>CS- 17381</u> ✓
Location ID	<u>SP- 123917</u>	<u>SP- 123918</u>	<u>SP- 123919</u>
Sample Group	<u>Property (DI 7)</u>	<u>Property (DI 8)</u>	<u>Property (DI 9)</u>
Location Description (circle)	Back yard <u>Center</u> Front yard <u>10' N</u> Side yard <u>10' S</u> Driveway <u>10' E</u> Other <u>DI 7</u>	Back yard <u>Center</u> Front yard <u>10' N</u> Side yard <u>10' S</u> Driveway <u>10' E</u> Other <u>DI 8</u>	Back yard <u>Center</u> Front yard <u>10' N</u> Side yard <u>10' S</u> Driveway <u>10' E</u> Other <u>DI 9</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 5</u>	Grab <u>Comp. # subsamples 5</u>	Grab <u>Comp. # subsamples 5</u>
Sample Time	<u>1334</u>	<u>1336</u>	<u>1337</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	<u>BD-004074</u> <u>NO L.V.</u> <u>OBSERVED</u>	<u>BD-004074</u> <u>NO L.V.</u> <u>OBSERVED</u>	<u>BD-004074</u> <u>NO L.V.</u> <u>OBSERVED</u>
Entered (LFO) <u>PS</u>	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion  
(Provide Initials)

Completed by RH

QC by RE

*By glesko*

# CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 107-108 Sampling Date: 9/23/03  
 Address: 1144 HIGHWAY 2 WEST Owner/Tenant: Emmett House Emmett House 224/23/03  
 Business Name: L. L. L. DANCE - IN SENT WILSON  
 Land Use: (circle) Residential School Commercial Mining Roadway Other ( )  
 Sampling Team: (circle) CDM MACTEC Other Names: DAVEY ZIMMERMAN  
RUBEN HUNT ALAN EUSNER

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17382</u> ✓	<u>CS- 17383</u> ✓	<u>CS- 17384</u> ✓
Location ID	<u>SP- 123920</u>	<u>SP- 123920</u>	<u>SP- 123961</u>
Sample Group	<u>PROPERTY (DI<sub>10</sub>)</u>	<u>PROPERTY (DI<sub>10</sub>-A<sub>10</sub>)</u>	<u>PROPERTY (DI<sub>11</sub>)</u>
Location Description (circle)	Back yard <u>CENTER</u> Front yard <u>10' N</u> Side yard <u>10' S</u> Driveway <u>10' E</u> <u>Other DI<sub>10</sub></u>	Back yard <u>CENTER</u> Front yard <u>10' N</u> Side yard <u>10' S</u> Driveway <u>10' E</u> <u>Other DI<sub>10</sub></u>	Back yard Front yard Side yard Driveway <u>Other DI<sub>11</sub></u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of <u>CS-17382</u> Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	<u>Grab</u> <u>Comp. # subsamples 5</u>	<u>Grab</u> <u>Comp. # subsamples 5</u>	<u>Grab</u> <u>Comp. # subsamples 5</u>
Sample Time	<u>1404</u>	<u>1409</u>	<u>1407</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	BD- <u>004674</u> <u>NO L.V.</u> <u>OBSERVED</u>	BD- <u>004674</u> <u>NO L.V.</u> <u>OBSERVED</u>	BD- <u>004674</u> <u>NO L.V.</u> <u>OBSERVED</u>
Entered (LFO) <u>PS</u>	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion  
(Provide Initials)

Completed by RA

QC by RE

# CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 108 Sampling Date: 9/23/03  
 Address: 1144 Highway 2 west Owners/Tenant: Enelia Huger BEAT Wilson  
 Business Name: Libby Highway 2 west  
 Land Use: (circle) Residential School Commercial Mining Roadway Other ( )  
 Sampling Team: (circle) CDM MACTEC Other \_\_\_\_\_ Names: Robert Hunt Danny Zambrowski  
Rich Eusner

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17385</u> ✓	<u>CS- 17386</u> ✓	<u>CS- 17387</u> ✓
Location ID	<u>SP- 123962</u>	<u>SP- 123963</u>	<u>SP- 123964</u>
Sample Group	<u>Property (DI<sub>12</sub>)</u>	<u>Property (DI<sub>13</sub>)</u>	<u>Property (DI<sub>14</sub>)</u>
Location Description (circle)	Back yard <u>Center</u> Front yard 10' W Side yard 10' S Driveway 10' E Other <u>DI<sub>12</sub></u>	Back yard <u>Center</u> Front yard 10' W Side yard 10' S Driveway 10' E Other <u>DI<sub>13</sub></u>	Back yard <u>Center</u> Front yard 10' W Side yard 10' S Driveway 10' E Other <u>DI<sub>14</sub></u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	<u>Grab</u> <u>Comp. # subsamples 5</u>	<u>Grab</u> <u>Comp. # subsamples 5</u>	<u>Grab</u> <u>Comp. # subsamples 5</u>
Sample Time	<u>1349</u>	<u>1421</u>	<u>1424</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	<u>BD- 004074</u> <u>NO L.V. OBSERVED</u>	<u>BD- 004074</u> <u>NO L.V. OBSERVED</u>	<u>BD- 004074</u> <u>NO L.V. OBSERVED</u>
Entered (LFO) <u>JS</u>	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion  
(Provide Initials)

Completed by RM

QC by RE

py 9/23/03

# CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 108 Sampling Date: 9/23/03  
 Address: 11414 Highway 2 West Owner/Tenant: Enrich Huber BERT WILSON  
 Business Name: 11414/362 LIBBY DANCE IN  
 Land Use: (circle) Residential School Commercial Mining Roadway Other ( )  
 Sampling Team: (circle) CDM MACTEC Other \_\_\_\_\_ Names: DANNY ZAMBREDO / RICK EUSTICE  
RUBEN HUNT

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17388</u> ✓	<u>CS- 17389</u> ✓	<u>CS- 17390</u> ✓
Location ID	<u>SP- 123965</u>	<u>SP- 123966</u>	<u>SP- 123967</u>
Sample Group	<u>Property (DI<sub>15</sub>)</u>	<u>Property (DI<sub>16</sub>)</u>	<u>Property (DI<sub>17</sub>)</u>
Location Description (circle)	Back yard <u>Center</u> Front yard <u>10' N</u> Side yard <u>10' S</u> Driveway <u>10' E</u> <u>Other DI<sub>15</sub> 10' W</u>	Back yard <u>Center</u> Front yard <u>10' N</u> Side yard <u>10' S</u> Driveway <u>10' E</u> <u>Other DI<sub>16</sub> 10' W</u>	Back yard <u>Center</u> Front yard <u>10' N</u> Side yard <u>10' S</u> Driveway <u>10' E</u> <u>Other DI<sub>17</sub> 10' W</u>
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	<u>FS</u> FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____	<u>Surface Soil</u> Other _____
Type (circle)	Grab <u>Comp. # subsamples 5</u>	Grab <u>Comp. # subsamples 5</u>	Grab <u>Comp. # subsamples 5</u>
Sample Time	<u>1426</u>	<u>1439</u>	<u>1443</u>
Top Depth (in.)	<u>0</u>	<u>0</u>	<u>0</u>
Bottom Depth (in.)	<u>6</u>	<u>6</u>	<u>6</u>
Field Comments Note if vermiculite is visible in sampled area	BD- <u>004074</u> <u>NO L.V.</u> <u>OBSERVED</u>	BD- <u>004074</u> <u>NO L.V.</u> <u>OBSERVED</u>	BD- <u>004074</u> <u>NO L.V.</u> <u>OBSERVED</u>
Entered (LFO) <u>PS</u>	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____

For Field Team Completion  
(Provide Initials)

Completed by

PH  
PH 9/23/03

QC by

PHPH  
9/23/03

# CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100275 Page No: 109 Sampling Date: 9/23/03  
 Address: 1144 Highway 2 West Owner/Tenant: EMILIA HALL 289127/01  
BERT WILSON  
 Business Name: Libby Drive In  
 Land Use: (circle) Residential School Commercial Mining Roadway Other ( )  
 Sampling Team: (circle) CDM MACTEC Other \_\_\_\_\_ Names: ROBERT HUNT RICH EUSKE  
DANNY ZIMMERMAN

Data Item	Sample 1	Sample 2	Sample 3
Index ID	<u>CS- 17391</u>		
Location ID	<u>SP- 123968</u>		
Sample Group	<u>Property (DI/BA)</u>		
Location Description (circle)	Back yard <u>CENTER</u> Front yard <u>10' N</u> Side yard <u>6' S</u> Driveway <u>10' E</u> Other <u>DI/BA</u>	Back yard Front yard Side yard Driveway Other	Back yard Front yard Side yard Driveway Other
Category (circle)	<u>FS</u> FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	<u>Surface Soil</u> Other _____	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	<u>Grab</u> <u>Comp. # subsamples <u>5</u></u>	Grab Comp. # subsamples _____	Grab Comp. # subsamples _____
Sample Time	<u>1449</u>		
Top Depth (in.)	<u>0</u>		
Bottom Depth (in.)	<u>6</u>		
Field Comments Note if vermiculite is visible in sampled area	BD- <u>004074</u>	BD- _____	BD- _____
Entered (LFO) <u>PS</u>	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____	Volpe: _____ Entered _____ Validated _____

For Field Team Completion  
(Provide Initials)

Completed by PH

QC by PH

PH  
9/23/03

# CONTAMINANT SCREENING STUDY/REMEDIAL INVESTIGATION FIELD SAMPLE DATA SHEET (FSDS) FOR SOIL

Scenario No.: NA Field Logbook No: 100257 Page No: 110 Sampling Date: 09/23/03Address: 318 LOUISIANA AVE Owner/Tenant: CDMBusiness Name: CDMLand Use: (circle) Residential School Commercial Mining Roadway Other ( )Sampling Team: (circle) CDM MACTEC Other \_\_\_\_\_ Names: REUSTICE / B Hunt / D. Zamborano

Data Item	Sample 1 <u>9/23/03</u> <u>RE</u>	Sample 2	Sample 3
Index ID	<b>CS- 17364</b>		
Location ID	<u>BD-002015</u>	<u>RE</u>	
Sample Group	<u>BLANK</u>	<u>9/23/03</u>	
Location Description (circle)	Back yard Front yard Side yard Driveway Other <u>BLANK</u>	Back yard Front yard Side yard Driveway Other _____	Back yard Front yard Side yard Driveway Other _____
Category (circle)	FS FD of _____ <u>Field Blank (lot or equipment)</u>	FS FD of _____ Field Blank (lot or equipment)	FS FD of _____ Field Blank (lot or equipment)
Matrix Type (Surface soil unless other wise noted)	Surface Soil <u>Soil RE 9/23/03</u> Other <u>SILICA SAND</u>	Surface Soil Other _____	Surface Soil Other _____
Type (circle)	<u>Grab</u> Comp. # subsamples _____	Grab Comp. # subsamples _____	Grab Comp. # subsamples _____
Sample Time	<u>1645</u> <u>NA</u> <u>RE 9/23/03</u>		
Top Depth (in.)	<u>NA</u>		
Bottom Depth (in.)	<u>NA</u>		
Field Comments Note if vermiculite is visible in sampled area	<u>BD-002015</u> <u>SILICA SAND</u> <u>LOT # 229</u>	<u>BD-</u>	<u>BD-</u>
Entered (LFO) _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____	Volpe: Entered _____ Validated _____

For Field Team Completion  
(Provide Initials)Completed by RE

QC by \_\_\_\_\_

RE  
9/23/03

**Appendix D**  
**Analytical Results for Soil Samples**  
**Collected, September 2003**

Sample ID	Parent ID	Scenario	Property Group (Location)	Sample Group	Location Description (Sub Location)	Media Type	Matrix	Category	Sample Date	PLM			
										Method	LA Bin	LA (%)	C (%)
CS-17333-C		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI1, center, 10°N, 10°S, 10°E, 10°W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-Grav	A	ND	ND
CS-17333-FG1		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI1, center, 10°N, 10°S, 10°E, 10°W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-VE	A	ND	ND
CS-17334-C		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI2, center, 10°N, 10°S, 10°E, 10°W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-Grav	A	ND	ND
CS-17334-FG1		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI2, center, 10°N, 10°S, 10°E, 10°W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-VE	A	ND	ND
CS-17335-C		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI3, center, 10°N, 10°S, 10°E, 10°W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-Grav	A	ND	ND
CS-17335-FG1		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI3, center, 10°N, 10°S, 10°E, 10°W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-VE	A	ND	ND
CS-17336-C		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI4, center, 10°N, 10°S, 10°E, 10°W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-Grav	A	ND	ND
CS-17336-FG1		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI4, center, 10°N, 10°S, 10°E, 10°W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-VE	A	ND	ND
CS-17337-C		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI5, center, 10°N, 10°S, 10°E, 10°W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-Grav	A	ND	ND
CS-17337-FG1		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI5, center, 10°N, 10°S, 10°E, 10°W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-VE	A	ND	ND
CS-17338-C		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI6, center, 10°N, 10°S, 10°E, 10°W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-Grav	A	ND	ND
CS-17338-FG1		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI6, center, 10°N, 10°S, 10°E, 10°W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-VE	A	ND	ND
CS-17339-C		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI7, center, 10°N, 10°S, 10°E, 10°W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-Grav	A	ND	ND
CS-17339-FG1		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI7, center, 10°N, 10°S, 10°E, 10°W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-VE	A	ND	ND
CS-17340-C		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI8, center, 10°N, 10°S, 10°E, 10°W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-Grav	A	ND	ND
CS-17340-FG1		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI8, center, 10°N, 10°S, 10°E, 10°W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-VE	A	ND	ND
CS-17381-C		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	Center, 10°N, 10°S, 10°E, 10°W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-Grav	A	ND	ND
CS-17381-FG1		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	Center, 10°N, 10°S, 10°E, 10°W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-VE	A	ND	ND
CS-17382-C		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI10, center, 10°N, 10°S, 10°E, 10°W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-Grav	A	ND	ND
CS-17382-FG1		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI10, center, 10°N, 10°S, 10°E, 10°W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-VE	A	ND	ND
CS-17383-C	CS-17382	N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI10, center, 10°N, 10°S, 10°E, 10°W	Soil-Like	Surface soil	Field Duplicate	9/23/2003	PLM-Grav	A	ND	ND
CS-17383-FG1	CS-17382	N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI10, center, 10°N, 10°S, 10°E, 10°W	Soil-Like	Surface soil	Field Duplicate	9/23/2003	PLM-VE	A	ND	ND
CS-17384-C		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI11	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-Grav	A	ND	ND



Sample ID	Parent ID	Scenario	Property Group (Location)	Sample Group	Location Description (Sub Location)	Media Type	Matrix	Category	Sample Date	PLM			
										Method	LA Bin	LA (%)	C (%)
CS-17384-FG1		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI11	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-VE	A	ND	ND
CS-17385-C		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI12, center, 10'N, 10'S, 10'E, 10'W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-Grav	A	ND	ND
CS-17385-FG1		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI12, center, 10'N, 10'S, 10'E, 10'W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-VE	A	ND	ND
CS-17386-C		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI13, center, 10'N, 10'S, 10'E, 10'W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-Grav	A	ND	ND
CS-17386-FG1		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI13, center, 10'N, 10'S, 10'E, 10'W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-VE	A	ND	ND
CS-17387-C		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI14, center, 10'N, 10'S, 10'E, 10'W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-Grav	A	ND	ND
CS-17387-FG1		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI14, center, 10'N, 10'S, 10'E, 10'W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-VE	A	ND	ND
CS-17388-C		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI15, center, 10'N, 10'S, 10'E, 10'W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-Grav	A	ND	ND
CS-17388-FG1		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI15, center, 10'N, 10'S, 10'E, 10'W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-VE	A	ND	ND
CS-17389-C		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI16, center, 10'N, 10'S, 10'E, 10'W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-Grav	A	ND	ND
CS-17389-FG1		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI16, center, 10'N, 10'S, 10'E, 10'W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-VE	A	ND	ND
CS-17390-C		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI17, center, 10'N, 10'S, 10'E, 10'W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-Grav	A	ND	ND
CS-17390-FG1		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI17, center, 10'N, 10'S, 10'E, 10'W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-VE	A	ND	ND
CS-17391-C		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI18, center, 10'N, 10'S, 10'E, 10'W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-Grav	A	ND	ND
CS-17391-FG1		N/A	1144 Highway 2 W - Libby Drive-In Theater	Property	DI18, center, 10'N, 10'S, 10'E, 10'W	Soil-Like	Surface soil	Field Sample	9/23/2003	PLM-VE	A	ND	ND